Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1.-4. (Canceled)

5.-8. (Canceled)

9. (Currently Amended) ~~The antenna according to claim 6, wherein the ceiling member has~~ An antenna comprising:

a conductive bottom member;

a conductive side member; and

a conductive member arranged in a space surrounded by the bottom member and the side member, wherein the conductive member is connected to a signal line for transmission and/or reception; and

a conductive ceiling member covering a part of the space,

wherein the conductive member extends its entire length normally of the conductive bottom member and the ceiling member, and

the ceiling member has at least one opening and a periphery having a curved shape.

10. (Previously Presented) An antenna comprising:

a conductive bottom member;

a conductive side member; and

a conductive member arranged in a space surrounded by the bottom member and the side member,

wherein the conductive member is connected to a signal line for transmission and/or reception, and

at least one of the bottom member and the side member has an opening other than an opening for the signal line.

11. (Canceled)

12. (Currently Amended) The antenna according to claim 10~~ or 11~~, wherein the openings have means of adjusting their size.

13. (Currently Amended) ~~The antenna according to claim 11, wherein~~ An antenna comprising:

a conductive bottom member;

a conductive side member;

a conductive member arranged in a space surrounded by the bottom member and the side member,

wherein the conductive member is connected to a signal line for transmission and/or reception; and

a conductive ceiling member covering a part of the space,

wherein the ceiling member has openings, and

a projection of the conductive member onto the bottom member is an origin point and the bottom member is arranged in an X-Y plane, the bottom member and the side member are symmetric with respect to a Z-Y plane, and the openings are symmetrically arranged with respect to a Z-Y plane.

14. (Original) The antenna according to claim 13, wherein the bottom member and the side member are symmetric with respect to a Z-X plane, and the openings are symmetrically arranged with respect to a Z-X plane.

15.-22. (Canceled)

23. (Previously Presented) An antenna comprising:

a conductive bottom member;

a conductive side member; and

a conductive member arranged in a space surrounded by the bottom member and the side member,

wherein the conductive member is connected to a signal line for transmission and/or reception; and

a circuit for transmission and/or reception connected to the signal line and arranged in the space.

24. (Original) The antenna device according to claim 23, further comprising a shielding member of covering all or part of the circuit, wherein the shielding member does not contact to the conductive member electrically.

25. (Previously Presented) The antenna device according to claim 24, wherein the shielding member is formed as a concave portion that is part of at least one of the bottom member and the side member; and

all or part of the circuit is arranged in the concave portion.

26. (Previously Presented) The antenna device according to claim 25, further comprising a lid member which covers the concave portion and stores all or part of the circuit, wherein the lid member is electrically connected to at least one of the bottom member and the side member.

27. (Original) The antenna device according to claim 23, wherein the circuit is constituted with a passive circuit.

28. (Original) The antenna device according to claim 23, wherein an active element is contained in the circuit.

29. (Original) The antenna device according to claim 23, wherein a microwave circuit is contained in the circuit.

30. (Original) The antenna device according to claim 23, wherein an optical passive element is contained in the circuit.

31. (Original) The antenna device according to claim 23, wherein an optical active element is contained in the circuit.

32. (Original) The antenna device according to claim 23, wherein the circuit has an IC.

33. (Original) The antenna device according to claim 23, wherein the circuit has such size that the circuit is hidden behind the ceiling member, when viewing the antenna device from the ceiling member side in the direction perpendicularly to the ceiling member.

34. (Original) An array antenna device that is an array antenna device where the plural antenna devices according to claim 23 are arrayed, wherein the circuits in the plural antenna devices each input or output the same signal.

35. (Original) The array antenna device according to claim 23, wherein the circuit has a cartridge form so as to be detachable from the antenna.

36. (Original) The antenna device according to claim 23, wherein the circuit comprises plural sub-circuits having radio systems different from each other, and switching means of switching the connection between anyone of the sub-circuits and the antenna.

37. (Original) The antenna device according to claim 23, wherein the circuit is arranged in the position that hides the circuit behind the ceiling member, when viewing the antenna device from the ceiling member side in the direction perpendicularly to the ceiling member.

38. (Original) The antenna device according to claim 23, wherein the circuit comprises: amplification means of amplifying the signal for the transmission and/or reception; and frequency selection means of selecting a frequency of the signal for transmission or the signal for reception.

39. (Original) A radio equipment comprising the antenna device according to any one of claims 23, and a power supply circuit provided in the circuit.

40.-42. (Canceled)

43. (Previously Presented) An antenna comprising:

a conductive bottom member;

a conductive side member;

a conductive member arranged in a space surrounded by the bottom member and the side member,

wherein the conductive member is connected to a signal line for transmission and/or reception;

a conductive ceiling member covering a part of the space; and

a circuit for transmission and/or reception connected to the signal line and arranged in the space.

44. (New) An antenna comprising:

a conductive bottom member;

a conductive side member;

a conductive member arranged in a space surrounded by the bottom member and the side member,

wherein the conductive member is connected to a signal line for transmission and/or reception; and

a conductive ceiling member covering a part of the space,

wherein the ceiling member has openings, and

the openings have means of adjusting their size.